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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Truskett, Van N.  
App. No.: 10/687,519 GPAU: 1775  
Filing Date: 10/16/2003 Examiner: Archene A. Turner  
Dkt. No.: P75-17-03 Conf. No.: 5222  
For: Low Surface Energy Templates

INFORMATION DISCLOSURE STATEMENT

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449  
☐ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed:

before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

Applicants do not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the

Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as either First Class Mail or Express Mail, in an envelope addressed to the Commissioner for Patents.

Signed: Katrina Prati

Typed Name: Katrina Prati

Date: 9-6-05

Respectfully Submitted,



Michael D. Carter

Reg. No. 56,661

Registered Patent Agent

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

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of

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## Complete if Known

APPLICATION NUMBER	10/687,519
FILING DATE	10/16/2003
FIRST NAMED INVENTOR	Truskett et al.
Group Art Unit	1775
Examiner Name	Turner, Archene A.
Attorney Docket Number	P75-17-03

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	I1	6,541,356	B2	Fogel et al.	4/1/2003	
	I2	2004/0150129		Hougham et al.	8/5/2004	
	I3	6,753,131	B1	Rogers et al.	6/22/2004	
	I4	6,335,149	B1	Xu et al.	1/1/2002	
	I5	6,600,207	B2	Huang et al.	7/29/2003	
	I6	5,956,216		Chou	9/21/1999	
	I7	5,820,769		Chou	10/13/1998	
	I8	5,204,381		Zeigler	4/20/1993	
	I9	6,066,269		Wei et al.	5/23/2000	
	I10	5,905,104		Eklund et al.	5/18/1999	
	I11	6,468,896	B2	Rohr et al.	10/22/2002	
	I12	6,342,097	B1	Terry et al.	1/29/2002	
	I13	5,234,793		Sebald et al.	8/10/1993	
	I14	2004/0202872	A1	Fang et al.	10/14/2004	
	I15	4,517,337		Lockhart et al.	5/14/1985	
	I16	2004/0241338	A1	Foster et al.	12/2/2004	
	I17	2003/0166814	A1	Sparrowe et al.	9/4/2000	

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		Number	Kind Code* (if known)			
	I18	3,919,351		Chang et al.	11/11/1975	
	I19	4,514,439		Rounds	4/30/1985	
	I20	4,271,258		Watariguchi	6/2/1981	
	I21	4,988,274		Kenmochi	1/29/1991	
	I22	6,114,404		Deeken et al.	9/5/2000	
	I23	6,583,248	B1	Bowen	6/24/2003	
	I24	5,853,446		Carre et al.	12/29/1998	
	I25	6,251,207	B1	Schultz et al.	6/26/2001	
	I26	4,687,707		Matsuo et al.	8/18/1987	
	I27	5,314,731		Yoneda et al.	5/24/1994	
	I28	5,482,768		Kawasato et al.	1/9/1996	
	I29	2005/0160934	A1	Xu et al.	7/28/2005	
	I30	6,849,558	B2	Schaper	2/1/2005	
	I31	6,936,194	B2	Watts	8/30/2005	

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		Office <sup>3</sup>	Number <sup>4</sup>					
	I32	WO	87/02935		Long et al.	5/21/1987		
	I33	JP	02192045		Mineo et al.	7/27/1990		
	I34	WO	02/22916		Pettersson et al.	3/21/2002		
	I35	EP	1460738	A2	Gimkiewicz et al.	9/22/2004		
	I36	JP	61-40845		Matsuo et al.	2/27/1986		
	I37	JP	2-248480		Yoneda et al.	10/4/1990		
	I38	JP	3-90345		Nobuyoshi et al.	4/16/1991		
	I39	JP	9-278490		Toru et al.	10/28/1997		

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Sheet	4	of	9	Examiner Name	Turner, Archene A.
				Attorney Docket Number	P75-17-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

	I40	BLOMQUIST ET AL., Fluorinated Acrylates in making Low-Loss, Low-Birefringence, and Single-Mode Optical Waveguides with Exceptional Thermo-Optic Properties, SPIE Conference on Linear Optical Properties of Waveguides and Fibers, Vol. 3799, pp. 266 - 279 7/1/1999	
	I41	BENDER ET AL., Fabrication of Nanostructures using a UV-based Imprint Technique, Microelectronic Engineering 53, pp. 233 -236 1/1/2000	
	I42	ELDADA ET AL., Robust Photopolymers for MCM, Board, and Backplane Optical Interconnects, SPIE Vol. 3288, pp. 175 - 191 1/1/1998	
	I43	ELDADA ET AL., Affordable WDM Components: The Polymer Solution, SPIE Vol. 3234, pp. 161 - 174 1/1/1998	
	I44	ELDADA ET AL., Advanced Polymer Systems for Optoelectronic Integrated Circuit Applications, SPIE Vol. 3006, pp. 344 - 361 1/1/1997	
	I45	HIRAI ET AL., Abstract of Mold Surface Treatment for Imprint Lithography, Journal of Photopolymer Science and Technology, pp 457-462, vol 14, No. 3 8/1/2001	
	I46	ROOS ET AL., Abstract of Nanoimprint Lithography with a Commercial 4 Inch Bond System for Hot Embossing, Proceedings of SPIE Vol. 4343, pp. 427-435 10/1/2001	
	I47	PAPIRER ET AL., The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography, Journal of Colloid and Interface Science 159, pp.238-242 8/1/1993	
	I48	Sol-Gel Technology, www.chemat.com/html/solgel.html 1/14/2004	

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	I49	Sol-Gel Chemistry, <a href="http://www.prsc/usm.edu/mauritz/solgel.html">www.prsc/usm.edu/mauritz/solgel.html</a> 2/2/2004	
	I50	HAKOVIRTA ET AL., Optical Properties of Fluorinated Diamond-Like Carbon Films Produced by Pulsed Glow Discharge Plasma Immersion Ion Processing, Journal of Applied Physics 88(3); pp1456-1459 8/1/2000	
	I51	APPLICATION NO. 10/827,118, naming Inventors Watts et al., entitled A Method of Forming a Deep-Featured Template Employed in Imprint Lithography, filed 4/19/2004	
	I52	APPLICATION NO. 10/789,319, naming Inventors Xu et al., entitled Composition for an Etching Mask Comprising a Silicon-Containing Material, filed 2/27/2004	
	I53	APPLICATION NO. 10/919,062, naming Inventors Xu et al., entitled Composition to Provide a Lyaer with Uniform Etch Characteristics, filed 8/16/2004	
	I54	APPLICATION NO. 11/012,374, naming Inventors Xu et al., entitled Composition to Reduce Adhesion Between a Conformable Region and a Mold, filed 12/15/2004	
	I55	APPLICATION NO. 11/068,171, naming Inventors Xu et al., entitled Composition to Reduce Adhesion Between a Conformable Region and a Mold, filed 2/28/2005	
	I56	Data Sheet for MAK (Methyl n-Amyl Ketone), <a href="http://www.sp-chem.com/fine_e">www.sp-chem.com/fine_e</a> 1/1/2003	
	I57	Data Sheet for gamma-Glycidoxypopyltrimethoxysilane, <a href="http://www.powerchemical.net/3100.htm">www.powerchemical.net/3100.htm</a> 12/5/2003	

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	I58	Silicon or Silica, www.mii.org/Minerals/photosil 3/31/2005	
	I59	Electronic Devices and Circuits, people.deas.harvard.edu/~jones/es154/lectures/lecture_2/materials/materials.html 3/31/2005	
	I60	Data Sheet for Cymel 303ULF, www.cyttec.com	
	I61	Data Sheet for Cycat 4040, www.cyttec.com	
	I62	International Chemical Safety Card for p-Toluenesulfonic Acid, www.itcilo.it/english/actrav/telearn/osh/ic/104154.htm 12/5/2003	
	I63	Data Sheet for p-Toluenesulfonic Acid, NIOSH Manual of Analytical Methods (NMAM), Fourth Edition	
	I64	Data Sheet for Dow Corning Z-6018,	
	I65	Data Sheet for Methyl Amyl Ketone, www.arb.ca.gov/db/solvents/solvent_pages/Ketones-HTML/methyl_aml.htm 3/31/2005	
	I66	Novec Fluorosurfactant FC-4432, http://multimedia.mmm.com/mws/mediawebserver.dyn?333333SQa783cMj3wMj333wyXuFiiiiH-8/4/2005	

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<b>Sheet</b>	7	of	9		

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	I67	Abstract of Japanese Patent 61-040845, 2/27/1986	
	I68	Abstract of Japanese Patent 02-248480, 10/4/1990	
	I69	Abstract of Japanese Patent 3-090345, 4/16/1991	
	I70	Abstract of Japanese Patent 09-278490, 10/28/1997	
	I71	Abstract of Japanese Patent 61-040845, 2/27/1986	
	I72	Abstract of Japanese Patent 02-248480, 10/4/1990	
	I73	APPLICATION NO. 11/187,406, naming Inventors Xu, entitled Composition for adhering materials together, filed 7/22/2005	
	I74	XU ET AL., Development of Imprint Materials for the Step and Flash Imprint Lithography Process, SPIE Microlithography Conference 2/1/2004	
	I75	GEHOSKI ET AL., Indium Tin Oxide Template Development for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2005	

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				APPLICATION NUMBER	10/687,519
				FILING DATE	10/16/2003
				FIRST NAMED INVENTOR	Truskett et al.
				Group Art Unit	1775
Sheet	8	of	9	Examiner Name	Turner, Archene A.
				Attorney Docket Number	P75-17-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

	176	DAUKSHER ET AL., Repair of Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 22(6), pp. 3306-3311 11/1/2004	
	177	NORDQUIST ET AL., Image Placement Issues for ITO-based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B, pp. 695-701 3/1/2004	
	178	DAUKSHER ET AL., Step and Flash Imprint Lithography Template Characterization, from an Etch Perspective, J. Vac. Sci. Technol. B 21(6), pp. 2771-2776 11/1/2003	
	179	RESNICK ET AL., Imprint Lithography: Lab Curiosity or the Real NGL?, SPIE Microlithography Conference 2/1/2003	
	180	MANCINI ET AL., Analysis of Critical Dimension Uniformity for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2003	
	181	MANCINI ET AL., Hydrogen Silsesquioxane for Direct Electron-Beam Patterning of Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 20(6), pp. 2896-2901 11/1/2002	
	182	DAUKSHER ET AL., Characterization of and Imprint Results Using Indium Tin Oxide-Based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 20(6), pp. 2857-2861 11/1/2002	
	183	NORDQUIST ET AL., Critical Dimension and Image Placement Issues for Step and Flash Imprint Lithography Templates, 22nd Annual BACUS Symposium on Photomask Technology, Monterey, CA 9/1/2002	
	184	RESNICK ET AL., Release Layers for Contact and Imprint Lithography, Semiconductor International, pp. 71-80 6/1/2002	

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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	185	BAILEY ET AL., Template Fabrication Schemes for Step and Flash Imprint Lithography, Microelectronic Engineering, 61-62, pp. 461-467 1/1/2002	
	186	RESNICK ET AL., High Resolution Templates for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2002	
	187	RESNICK ET AL., New Methods for Fabricating Step and Flash Imprint Lithography Templates, NIST-SPIE Conference on Nanotechnology 9/1/2001	

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